

## iPod touch (4th generation) - Technical Specifications

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### Size and weight

Height:

4.4 inches (111.0 mm)

Width:

2.3 inches (58.9 mm)

Depth:

0.28 inch (7.2 mm)

Weight:

3.56 ounces (101 grams)<sup>1</sup>

### Capacity

- 8GB, 32GB or 64GB flash drive<sup>2</sup>

### Wireless<sup>3</sup>

- 802.11b/g/n Wi-Fi (802.11n 2.4GHz only)
- Bluetooth® 2.1 + EDR
- Maps-location based service<sup>4</sup>
- Nike + iPod support built in

### In the box

- iPod touch
- Earphones
- Dock Connector to USB Cable
- Quick Start guide

### Environmental Status Report

iPod touch embodies Apple's continuing environmental progress. It is designed with the following features to reduce environmental impact:

- Arsenic-free display glass
- Brominated flame retardant-free
- Mercury-free LCD display
- PVC-free
- Recyclable stainless steel enclosure
- Smaller, more compact packaging (17% smaller, 16% lighter)

### Display

- 3.5-inch (diagonal) widescreen Multi-Touch display
- 960-by-640-pixel resolution at 326 pixels per inch

### Audio

- Frequency response: 20Hz to 20,000Hz
- Audio formats supported: AAC (8 to 320 Kbps), Protected AAC (from iTunes Store), HE-AAC, MP3 (8 to 320 Kbps), MP3 VBR, Audible (formats 2, 3, 4, Audible Enhanced Audio, AAX, and AAX+), Apple Lossless, AIFF, and WAV
- User-configurable maximum volume limit

### Headphones

- Earphones
- Frequency response: 20Hz to 20,000Hz

- Impedance: 32 ohms

#### TV and video

- H.264 video up to 720p, 30 frames per second, Main Profile level 3.1 with AAC-LC audio up to 160 Kbps, 48kHz, stereo audio in .m4v, .mp4, and .mov file formats
- MPEG-4 video, up to 2.5 Mbps, 640 by 480 pixels, 30 frames per second, Simple Profile with AAC-LC audio up to 160 Kbps per channel, 48kHz, stereo audio in .m4v, .mp4, and .mov file formats
- Motion JPEG (M-JPEG) up to 35 Mbps, 1280 by 720 pixels, 30 frames per second, audio in ulaw, PCM stereo audio in .avi file format
- Support for 1024 by 768 pixels with Dock Connector to VGA Adapter; 576p and 480p with Apple Component AV Cable; 576i and 480i with Apple Composite AV Cable (cables sold separately)

#### Languages

##### Localized UI

- English, English (UK), French, German, Traditional Chinese, Simplified Chinese, Dutch, Italian, Spanish, Portuguese (Brazil), Portuguese, Danish, Swedish, Finnish, Norwegian, Korean, Japanese, Russian, Polish, Turkish, Ukrainian, Hungarian, Arabic, Thai, Czech, Greek, Hebrew, Indonesian, Malay, Romanian, Slovak, Croatian, Catalan, Vietnamese, Cherokee

##### Localized Keyboards

- English, English (UK), French, French (Canadian), German, Traditional Chinese (handwriting, Pinyin, Zhuyin), Simplified Chinese (handwriting, Pinyin), Dutch, Italian, Spanish, Portuguese (Brazil), Portuguese, Danish, Swedish, Finnish, Norwegian, Korean, Japanese (QWERTY, Kana), Russian, Polish, Turkish, Ukrainian, Estonian, Hungarian, Icelandic, Lithuanian, Latvian, Belgian/Dutch, Swiss/French, Arabic, Thai, Czech, Greek, Hebrew, Indonesian, Malay, Romanian, Slovak, Croatian, Bulgarian, Serbian, Catalan, Tagalog, Vietnamese, Cherokee

##### Localized Dictionaries

- English, English (UK), French, French (Canadian), German, Traditional Chinese (handwriting, Pinyin, Zhuyin), Simplified Chinese (handwriting, Pinyin), Dutch, Italian, Spanish, Portuguese (Brazil), Portuguese, Danish, Swedish, Finnish, Norwegian, Korean, Japanese (QWERTY, Kana), Russian, Polish, Turkish, Ukrainian, Hungarian, Lithuanian, Arabic (colloquial/regional and modern standard), Thai, Czech, Greek, Hebrew, Indonesian, Malay, Romanian, Slovakian, Croatian, Catalan, Tagalog, Vietnamese

#### Cameras, photos, and video

- Video recording, HD (720p) up to 30 frames per second with audio; still photos (960 x 720) with back camera
- VGA-quality photos and video up to 30 frames per second with the front camera
- Tap to control exposure for video or stills
- Photo and video geo tagging over Wi-Fi

#### Input and output

- 30-pin dock connector
- 3.5-mm stereo headphone minijack
- Built-in speaker
- Microphone

#### External buttons and controls

- Sleep/wake
- Volume up/down
- Home

#### Sensors

- Three-axis gyro
- Accelerometer
- Ambient light sensor

#### Battery and power<sup>5</sup>

- Built-in rechargeable lithium-ion battery
- Playback time

- Music playback time: Up to 40 hours when fully charged
- Video playback time: Up to 7 hours when fully charged
- Charging times: Fast charge in about 2 hours (80% capacity), full charge in about 4 hours.

#### System requirements

- USB 2.0
- iTunes 10 or later<sup>1</sup>
- Mac: Mac OS X v10.5.8 or later
- PC: Windows 7, Windows Vista, or Windows XP Home or Professional (SP3) or later
- Broadband Internet access required; fees may apply.

#### Environmental requirements

- Operating temperature: 32° to 95° F  
(0° to 35° C)
- Nonoperating temperature: -4° to 113° F  
(-20° to 45° C)
- Relative humidity: 5% to 95% noncondensing
- Maximum operating altitude: 10,000 feet  
(3000 m)

#### Accessories

##### **In-Ear Headphones with Remote and Mic**

Engineered for extreme clarity and audio accuracy, these headphones let you hear musical details you've been missing.

##### **USB Power Adapter**

Use this ultracompact USB-based adapter to charge your iPhone or iPod whenever it's not connected to a computer.

##### **Earphones with Remote and Mic**

These earbud headphones have convenient buttons that let you adjust volume and control music and video playback.

##### **Universal Dock with Remote**

Get easy access to a USB port for charging and syncing your iPod or for connecting to a TV or speakers.

##### **Apple Composite AV Cable**

##### **Apple Component AV Cable**

##### **Apple Dock Connector to USB Cable**

##### **iPod Universal Dock Adapter 3-Pack**

##### **AppleCare Protection Plan**

1. Weight varies by configuration and manufacturing process.
2. 1GB = 1 billion bytes; actual formatted capacity less.
3. Internet access required; broadband recommended; fees may apply.
4. For iPod touch with Maps, the Maps application provides your approximate location using information based on your proximity to known Wi-Fi networks (when on and available). The more accurate the available information, the smaller the circle identifying your position on the map. The feature is not available in all areas. Known Wi-Fi networks are predominantly in urban areas. In order to provide your location, data is collected in a form that does not personally identify you. If you do not want such data collected, do not enable the feature. Not enabling the feature will not impact the functionality of your iPod touch.
5. Testing conducted by Apple in August 2010 using preproduction hardware and software. The playlist contained 358 unique audio tracks consisting of content imported from CDs using iTunes (128-Kbps AAC) and content purchased from the iTunes Store (256-Kbps AAC); video content was purchased from the iTunes Store. iPod units were associated to a Wi-Fi network and Auto-Brightness was turned off; all other settings were default. Battery tests are conducted with specific iPod units; actual results may vary. Rechargeable batteries have a limited number of charge cycles and may eventually need to be replaced (see [www.apple.com/support/ipod/service/battery](http://www.apple.com/support/ipod/service/battery)). Battery life and number of charge cycles vary by use and settings. See [www.apple.com/batteries](http://www.apple.com/batteries) for more information.

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6. iPod and iTunes are for legal or rightholder-authorized copying only. Don't steal music.